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10. A mammal according to claim 9 wherein said insertion sequence is a polylinker sequence.
11. A mammal according to claim 9 wherein said insertion sequence is a reporter gene.
- 5 12. A mammal according to claim 11 wherein said reporter gene is selected from the group consisting of a luciferase gene, a β -galactosidase gene and green fluorescent protein (GFP), blue fluorescent protein (BFP), red fluorescent protein (RFP) and yellow fluorescent protein (YFP).
- 10 13. A mammal according to claim 9 wherein said insertion sequence is selected from the group consisting of a gene encoding human lysozyme, human growth hormone, human serum albumin, human globin, a human immunoglobulin, and a human enzyme.
14. A mammal according to claim 12 wherein said human enzyme is α -1 antitrypsin.
- 15 15. A mammal according to claim 12 wherein said human enzyme is anti-thrombin III.
16. A mammal according to claim 12 wherein said human enzyme gene does not encode any phenylalanine residues.
17. A mammal according to claim 9 wherein said insertion sequence is selected from the group consisting of a human gene under control of its endogenous promoter, a modified endogenous regulatory element for an endogenous gene, a transcriptional regulation cassette and a dimerizing sequence.
- 20 18. A mammal according to claim 17 wherein said endogenous regulatory element is disrupted by deletion of at least one nucleotide.

19. A mammal according to claim 17 wherein said regulatory element is disrupted by an insertion sequence.
20. A mammal according to claim 1 wherein said enzyme is a sugar transferase enzyme.
- 5 21. A mammal according to claim 20 wherein said sugar transferase enzyme is α -galactosyl transferase:
22. A mammal according to claim 21 wherein said α -galactosyl transferase gene is disrupted by deletion of at least one nucleotide.
23. A mammal according to claim 21 wherein said α -galactosyl transferase gene is
10 disrupted by an insertion sequence.
24. A mammal according to claim 23 wherein said insertion sequence is a hormone receptor gene.
25. A mammal according to claim 23 wherein said insertion sequence is a viral receptor gene.
- 15 26. A mammal according to claim 23 wherein said insertion sequence is a G-protein coupled receptor gene.
27. A primate comprising a modified endogenous gene.
28. A primate according to claim 27 wherein said endogenous gene is disrupted by deletion of at least one nucleotide.
- 20 29. A primate according to claim 27 wherein said endogenous gene is disrupted by an insertion sequence.

30. A primate according to claim 29 wherein said insertion sequence is a human therapeutic gene.

31. A primate according to claim 29 wherein said insertion sequence is a human antibody gene.

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